

TENNESSEE AIR POLLUTION CONTROL BOARD
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
NASHVILLE, TENNESSEE 37243-1531

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ENVIRONMENTAL FIELD OFFICE
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Permit to Operate an Air Contaminate Source Issued Pursuant to Tennessee Air Quality Act

Date Issued: November 8, 2007

Date Amended: May 10, 2010

Date Expires: November 1, 2017

Permit Number:

461453P

Issued To:

Tinsley Asphalt, LLC

Installation Address:

481 AEDC Road
Decherd

Installation Description:

Source 01 Asphalt Batch Plant - Low NOx Natural Gas Burner
With Cyclone and Fabric Filter Control.

Emission Source Reference No.:

26-0107

NSPS


CONDITIONAL MAJOR SOURCE

The holder of this permit shall comply with the conditions contained in this permit as well as all applicable provisions of the Tennessee Air Pollution Control Regulations.

GENERAL CONDITION:

1. The application that were utilized in the preparation of this permit is dated April 27, 2010, and signed by Eddie Tinsley, Jr., Manager for the permitted facility. If this person terminates his employment or is reassigned different duties such that he is no longer the responsible person to represent and bind the facility in environmental permitting affairs, the owner or operator of this air contaminant source shall notify the Technical Secretary of the change. Said notification shall be in writing and submitted within thirty (30) days of the change. The notification shall include the name and title of the new person assigned by the source owner or operator to represent and bind the facility in environmental permitting affairs. All representations, agreement to terms and conditions and covenants made by the former responsible person that were used in the establishment of limiting permit conditions on this permit will continue to be binding on the facility until such time that a revision to this permit is obtained that would change said representations, agreements and covenants.

(continued on the next page)


TECHNICAL SECRETARY

No Authority is Granted by this Permit to Operate, Construct, or Maintain any Installation in Violation of any Law, Statute, Code, Ordinance, Rule, or Regulation of the State of Tennessee or any of its Political Subdivisions.

NON TRANSFERABLE

POST AT INSTALLATION ADDRESS

2. The Permittee would be considered a major source because their "potential to emit" value for carbon monoxide was greater than 100 tons per year at the time of application. The Permittee has agreed to be subject to limitations in order to be below the major source applicability threshold for carbon monoxide of 100 tons per year.
3. Any non compliance with any condition(s) of this permit set to restrain the "potential to emit" below the applicability thresholds of 1200-3-9-.02(11) of the Tennessee Air Pollution Control Regulations, shall be reported in writing to the Technical Secretary within three (3) working days of such discovery. This notification, at a minimum, shall include the identification of the source(s), identification of the permit condition(s) violated and details of the non-compliance.
4. The Permittee is placed on notice that **Conditions 6 and 7** of this operating permit contain limitations that allow the Permittee to opt out of the major source operating permit program requirements specified in Division Rule 1200-3-9-.02(11). Failure to abide by these limits will not only subject the Permittee to enforcement action by the State of Tennessee, but it may also result in the imposition of Federal enforcement action by the United States Environmental Protection Agency and the loss of being Federally recognized as a conditional major source.

Compliance with **Conditions 6 and 7** assures that the source will be below the major source applicability thresholds for carbon monoxide of 100 tons per year. This assurance is based on AP-42 Chapter 1, Section 3 (Fuel Oil Combustion, dated September, 1998), from which the emission factors were used to calculate emissions as shown below:

Based on Vendor furnished emission factors

Parameter	Based on Natural Gas Usage		
	Emission Factor, as shown below	Emissions without limiting conditions, ton/yr	Emissions with limiting conditions, ton/yr
CO	0.18 lbs per ton	176.8	40.4

5. A written report stating the compliance status of this source or facility with **Condition 6** of this permit shall be submitted by March 31 of every year. The first year shall cover the calendar year of 2010. This report shall cover the preceding calendar year and shall include the records required by **Condition 14**. This report shall be mailed to the following address:

Tennessee Division of Air Pollution Control
Columbia Environmental Field Office
1421 Hampshire Pike
Columbia, TN 38401

6. Production rate for this source shall not exceed 225 tons per hour on a daily average basis and 450,000 tons of asphalt per any consecutive 12-month period. Compliance with this requirement may be indicated by the records required by **Condition 14**.

This condition is established pursuant to Rule 1200-3-9-.02(11)(a) of the Tennessee Air Pollution Control Regulations and the agreement letter from the permittee, dated May 11, 2007.

7. Only Natural Gas shall be used as fuel for this source. TAPCR 1200-3-09-.01(1)(d) and the application dated April 27, 2010.
8. Particulate matter (TSP) emitted from this source shall not exceed 0.04 grains per dry standard cubic foot of stack gases (8.9 pounds per hour).

This condition is established pursuant to Rule 1200-3-16-.08(3)(a) of the Tennessee Air Pollution Control Regulations.

9. Sulfur dioxide (SO₂) emitted from this source shall not exceed 1.1 pounds per hour on a monthly average basis and 1.1 tons per any consecutive 12-month period. Compliance with these limits may be assured by compliance with **Conditions 6 and 7** based on the AP-42 emission factors.
10. Emissions from roads and parking areas shall not exhibit greater than 10 percent opacity utilizing Tennessee Visible Emissions Evaluation (TVEE) Method 1, as adopted by the Tennessee Air Pollution Control Board on April 29, 1982, as amended on September 15, 1982 and as amended on August 24, 1984.

This condition is established pursuant to Rule 1200-3-8-.01(1) of the Tennessee Air Pollution Control Regulations.

11. Fugitive emissions from this source shall be controlled as specified in Rule 1200-3-8-.01. Specifically, no person shall cause, suffer, allow, or permit fugitive dust to be emitted in such manner to exceed five (5) minutes per hour or twenty (20) minutes per day as to produce a visible emission beyond the property line of the property on which the emission originates, excluding malfunction of equipment as provided in Chapter 1200-3-20. Fugitive emissions from this source shall be determined by Tennessee Visible Emissions Evaluation Method 4, as adopted by the Tennessee Air Pollution Control Board on April 16, 1986.

This condition is established pursuant to Rule 1200-3-8-.01(2) of the Tennessee Air Pollution Control Regulations.

12. Emissions from this source not covered by **Conditions 10 and 11** shall not exhibit greater than 20 percent opacity as determined by EPA Method 9, as published in the current 40 CFR 60, Appendix A. (6 minute average)

This condition is established pursuant to Rule 1200-3-16-.08(3)(b) of the Tennessee Air Pollution Control Regulations.

13. A record of the asphalt production at this facility, in a form that readily provides the information required in the following tables, shall be maintained at the source location and kept available for inspection by the Technical Secretary or his representative. This record shall be retained for a period of not less than five (5) years.

Monthly Log for 28-0085

For Month:		For Year:	
Date	Asphalt production (tons)	Date	Asphalt production (tons)
1		16	
2		17	
3		18	
4		19	
5		20	
6		21	
7		22	
8		23	
9		24	
10		25	
11		26	
12		27	
13		28	
14		29	
15		30	
		31	
Total Tons Asphalt produced:			

CURRENT EMISSIONS REQUIREMENTS AND EMISSION SUMMARY

COMPANY NAME: Tinsley Asphalt

1. EMISSION SOURCE REFERENCE NUMBER: 26-0107 (amended 5/10/10) NONATTAINMENT: Y 2. LOG NUMBER: 461453P - Amend

3A. PERMIT STATUS: NEW RENEWAL Y RELOCATION Y 3B. PREVIOUS PERMIT NUMBER: 90692PA OPERATING: 90692PA

4. IDENTIFY IF ONLY A PART OF THE SOURCE IS SUBJECT TO THIS REQUIREMENT	5. POLLUTANT	6. APPLICABLE REQUIREMENT(S): TN AIR POLLUTION CONTROL REGULATIONS, 40 CFR, PERMIT RESTRICTIONS, AIR QUALITY BASED STANDARDS	7. LIMITATION	8. MAXIMUM ACTUAL EMISSIONS				9. MAXIMUM ALLOWABLE EMISSIONS	
				IN UNITS OF ITEM 7	POUNDS / HOUR	TONS / YEAR	POUNDS / HOUR	TONS / YEAR	
	TSP	1200-3-16-.08(3)(a)	0.04 gr/dscf	0.04 gr/dscf	8.9	8.9	8.9	8.9	8.9
	SO2	1200-3-14-.03(5)			1.1	11	1.1	1.1	1.1
	CO	1200-3-7-.07(2)			40.4	40.4	40.4	40.4	40.4
	NOx	1200-3-7-.07(2)			10.6	10.6	10.6	10.6	10.6
	VOC	1200-3-7-.07(2)			9.9	9.9	9.9	9.9	9.9
	Yearly Production Production Rate	1200-3-26-.02(6)(b) Permit Cond 7 agreement letter 5/11/07	225 tns/hr 450,000 tns/yr						
	OPACITY	1200-3-5-.01(1)	20%, Method 9						

SOURCE OF DATA FOR EMISSIONS IN ITEM 8: Data taken from application and vendor. Calculations - 5/10/2010

IF THIS IS NOT A TITLE V SOURCE, IS THIS A DEFERRED SOURCE (SUBJECT TO NSPS OR NESHAPS) OR A SYNTHETIC MINOR SOURCE? IF THE ANSWER IS YES, EXPLAIN:

ENGINEERING SPECIALIST: Dave Gosslee DATE: May 10, 2010 SUPERVISOR: _____ DATE: _____

Emission Factors from Vendor & AP42, Chapter 11 for PM
 PM 0.04 Gr/DSCF * 1559527 DSCF / 7000 Gr/lb = 8.9 lb/hr
 Heat Input 2.5 Gal/tm * 225 tn/hr * 0.14 mmBTU/Gal = 81.9 mmBTU/Hr
 CO lb/tm 40.38 lbs / 225 tons = 0.18 lb/tn
 Without Limits

	lbs/mmBTU		Pounds Per Hour			Tons Per Year rounded to 0.1		
			Act	Pot	All	Act	Pot	All
PM	N/A	see above	8.90	8.90	8.90	39.0	39.0	39.0
SO2	0.0129	Vendor	1.06	1.06	1.06	4.6	4.6	4.6
CO	0.493	Vendor	40.38	40.38	40.38	176.8	176.8	176.8
VOC	0.121	Vendor	9.91	9.91	9.91	43.4	43.4	43.4
NOx	0.13	Vendor	10.65	10.65	10.65	46.6	46.6	46.6

With Limits and baghouse control

	lbs/mmBTU		Pounds Per Hour			Tons Per Year rounded to 0.1		
			Act	Pot	All	Act	Pot	All
PM	N/A	see above	8.90	8.90	8.90	8.9	8.9	8.9
SO2	0.0129	Vendor	1.06	1.06	1.06	1.1	1.1	1.1
CO	0.493	Vendor	40.38	40.38	40.38	40.4	40.4	40.4
VOC	0.121	Vendor	9.91	9.91	9.91	9.9	9.9	9.9
NOx	0.13	Vendor	10.65	10.65	10.65	10.6	10.6	10.6